

		34
LECTURE 4	- PROBLEM 2	
<u>L</u> 2 = 1	$\frac{W_2}{W_1} = 5 \qquad \boxed{I} = ID2 = 0$	0.5 m A VD= -VS= 5
Kn' (W) =	0.8 mA N2 VTN=11	$1 \lambda = 0 \mathbb{R} = ?$
VG = ?		
I a IREF	(WIL), IREF. W2 (WIL), W.	D IREF - I WI - W2
- 0.5m	0.1 mA.	
IREF = VI	D-VG = R = VDD-VG REF	
	s Q1 is in Saturation	n. Tens
IDI = IRE	$\frac{1}{2} \left(\frac{W}{2} \right) \left(VGS, -VTN \right)^{2} = 0$	VGS-VTN) = 0.1.2
	± 0.5 = VGS. 1.5V (S.	each as it is engan tha
	$S_1 = D VG = VSS + VGS = -$	cond os it is esue tea N) -5 V + 1-5 = -3-5 V
	.5) -85 k-a	
VD Z MIM, SAT	VSS + VDS, SAV , VDS, SAV	7- V6S2 - VTN
1052=1651	= 1.5V => VDS2, SAT = 1.	2-1=0.51